





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 324-F-PCT	FOR FURTHER ACTIO	N Preliminary	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (da	y/month/year)	Priority date (day/month/year)				
PCT/JP2003/007359	10 June 2003 (10.0	06.2003)	19 June 2002 (19.06.2002)				
International Patent Classification (IPC) or r H01L 33/00	lational classification and IPC	· · · · · · · · · · · · · · · · · · ·	·				
Applicant	SANKEN ELECTRIC	C CO., LTD.	·				
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of	f 4 sheets, incl	uding this cover	sneet.				
amended and are the basis f 70.16 and Section 607 of th	for this report and/or sheets co se Administrative Instructions	under the PCT).	tion, claims and/or drawings which have been cations made before this Authority (see Rule				
These annexes consist of a	total of shee						
3. This report contains indications re-	lating to the following items:						
I Basis of the report	:						
II Priority							
III Non-establishmen	t of opinion with regard to no	velty, inventive	step and industrial applicability				
IV Lack of unity of in			11.11.11.11.11.11.11.11.11.11.11.11.11.				
V Reasoned stateme citations and expl	ent under Article 35(2) with re anations supporting such state	egard to novelty, ement	inventive step or industrial applicability;				
VI Certain document	ts cited						
VII Certain defects in	the international application						
VIII Certain observation	ons on the international applic	cation					
			n of this report				
Date of submission of the demand		Date of completion of this report					
11 November 2003 (1	1.11.2003)	03	3 August 2004 (03.08.2004)				
Name and mailing address of the IPEA/J	P A	authorized office	r				
Facsimile No.	т	elephone No.					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

L	ional application No.
	PCT/JP2003/007359

I. Basis o	of the re	port
1. With	regard to	the elements of the international application:*
	the inter	rnational application as originally filed
$\overline{\boxtimes}$	the desc	cription:
الأسيكا	pages	1-4, 7-19 , as originally filed
	pages	, filed with the demand
	pages	5, 6, 6/1 , filed with the letter of 30 March 2004 (30.03.2004)
\square	the clair	ms:
	pages	2, 8, 11-12, 16-18, 20 , as originally filed
	pages	, as amended (together with any statement under Article 19
	pages	, filed with the demand
	pages	1, 4-7, 9-10, 13, 15, 19, 21 , filed with the letter of 30 March 2004 (30.03.2004)
	the drav	
الخيا	pages	1-17 , as originally filed
	pages	, filed with the demand
	pages	, filed with the letter of
 	the seaso	ence listing part of the description:
'''	me seque pages	•
	pages	, as originally filed, filed with the demand
1	pages	, filed with the letter of, med with the demand
the in Thes	the land the	to any nucleotide and/or amino acid sequence disclosed in the international application, the international examination was carried out on the basis of the sequence listing: ned in the international application in written form. ogether with the international application in computer readable form. thed subsequently to this Authority in written form. thed subsequently to this Authority in computer readable form. statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the ational application as filed has been furnished. tatement that the information recorded in computer readable form is identical to the written sequence listing has
4. 🔀		furnished. mendments have resulted in the cancellation of: the description, pages the claims, Nos3, 14 the drawings, sheets/fig
5.		eport has been established as if (some of) the amendments had not been made, since they have been considered to go d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
in th and	his repoi 70.17).	sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to rt as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16
Any	replacen	ment sheet containing such amendments must be referred to under item 1 and annexed to this report.

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-2, 4-13, 15-21	YES
	Claims		NO
Inventive step (IS)	Claims	11-13, 15-20	YES
	Claims	1-2, 4-10, 21	NO
Industrial applicability (IA)	Claims	1-2, 4-13, 15-21	YES
	Claims		NO

2. Citations and explanations

- Document 1: JP 2002-94122 A (Matsushita Electric Works, Ltd.), 29 March 2002, entire text, all drawings
- Document 2: JP 2000-77725 A (Citizen Electronics Co., Ltd.), 14 March 2000, entire text, all drawings
- Document 3: JP 2000-261041 A (Citizen Electronics Co., Ltd.), 22 September 2000, entire text, all drawings
- Document 4: JP 11-340517 A (Sanken Electric Co., Ltd.),
 10 December 1999, entire text, all drawings
- Document 5: JP 2001-345482 A (Toshiba Corp.), 14

 December 2001, entire text, all drawings
- Document 6: JP 52-70783 A (Tokyo Shibaura Electric Co., Ltd.), 13 June 1977, entire text, all drawings
- Document 7: JP 55-135469 U (NEC Corp.), 26 September 1980, entire text, all drawings
- Document 8: JP 1-309201 A (Mitsubishi Cable Ind., Ltd.),
 13 December 1989, entire text, all drawings
- Document 9: JP 60-103841 U (Sony Corp.), 15 July 1985
- Document 10: JP 9-7409 A (Nichia Corp.), 10 January 1997,
 - paragraphs [0004] to [0008], fig. 1
- Document 11: JP 11-214754 A (Rohm Co., Ltd.), 06 August

1998, paragraphs [0005] to [0006] and [0016] to [0017], fig. 1

Documents 1-2 disclose metal support plates.

Documents 3-5 disclose configurations for a reflective reflector and a lens unit.

Document 6 discloses recessed areas that correspond to the fine lead lines.

Document 7 lays open a notched structure that is provided to a reflecting unit.

Document 8 discloses a flat area that is provided to a reflector.

Document 9 discloses a light-emitting device that comprises a metal seat and a hollow structure.

Document 10 discloses a configuration wherein the light emitting element is not sealed with a resin.

Document 11 makes disclosures pertaining to the deterioration of the sealing resin.

The invention set forth in claims 1-5 and 21 has a configuration that could have been designed by a person skilled in the art, as necessary, by combining the well-known features that are disclosed in documents 1-5 and 9-11, and a person skilled in the art could configure so that the interior of the reflector is hollow, as necessary.

The invention set forth in claims 6-10 is a production method wherein the invention that is set forth in claim 1 is simply formed by means of a well-known transfer molding method, which could be employed by a person skilled in the art, as necessary.

The inventions set forth in claims 11-20 are not disclosed in documents 1-11, and are not considered to be obvious to a person skilled in the art.